

## RECOMBINANT HUMAN NEUROTROPHIN-4

<b>CATALOG NUMBER:</b>	GF032
<b>LOT NUMBER:</b>	
<b>QUANTITY:</b>	10 µg
<b>DESCRIPTION:</b>	Neurotrophin-4 (NT-4/NT-5) is a potent neurotrophic factor which supports the growth and survivability of nerve and/or glial cells. The active form of human NT-4 is a dimer, formed by two identical 130 amino acid subunits, which is held together by strong hydrophobic interactions.
<b>SOURCE:</b>	<i>E. coli</i>
<b>PURITY:</b>	Greater than 98% by SDS-PAGE and HPLC analysis. Endotoxin level is less than 0.1 ng per µg (1EU/µg) of NT-4.
<b>ACTIVITY:</b>	Chemicon's human NT-4 is fully biologically active when compared to standards. The ED <sub>50</sub> as determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cultures was found to be in the range of 20-50 ng/mL.
<b>APPLICATIONS:</b>	Concentration range for most <i>in vitro</i> applications is 0.5 to 100 ng/mL. Responding cells are (partial list): Nerve, glial cells.
<b>PRESENTATION:</b>	Lyophilized protein with no additives.
<b>STORAGE/HANDLING:</b>	The lyophilized powder, though stable at room temperature, is best stored desiccated below 0°C for up to 12 months after date of receipt. After a quick spin, reconstitute with sterile water to a concentration of 0.1-1.0 mg/mL. This solution can be diluted into other aqueous buffers. Reconstitute NT-4 should be stored in undiluted aliquots at -20°C for up to six months.

*For research use only; not for use as a diagnostic.*